

Australian Standard®

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**Character sets and information  
coding—Control functions for 7-bit  
and 8-bit coded character sets**

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(ISO Title: Information processing—Control functions for 7-bit and 8-bit coded character sets)

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The following interests are represented on Committee IT/10:

Australian Information Industries Association

CSIRO, Division of Information Technology

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and 8-bit coded character sets**

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## PREFACE

This Standard was prepared by Standards Australia's Committee on Information Systems—Equipment. It is identical with, and has been reproduced from International Standard ISO 6429: 1988, *Information processing—Control functions for 7-bit and 8-bit coded character sets*.

For the purpose of this Australian Standard, the text of the ISO Standard should be modified as follows:

- (a) *Terminology*. The words 'Australian Standard' should replace the words 'International Standard' wherever they apply.
- (b) *References*. The references to International Standards should be replaced by references to Australian Standards as follows:

<i>International Standard</i>	<i>Australian Standard</i>
ISO	AS
1745 Information processing—Control procedures for data communication systems	2749 Information processing—Control procedures for data communication systems
2022 Information processing—ISO 7-bit and 8-bit coded character sets—Code extension techniques	1953 Information processing—ISO 7-bit and 8-bit coded character sets—Code extension techniques
6937 Information processing—Coded character sets for text communications	2793.1 Information processing—Coded character sets for text communications
7350 Text communications—Registration of graphic subrepertories	2760 Text communications—Registration of graphic subrepertories

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<b>Contents</b>	<b>Page</b>
<b>1</b> Scope .....	13
<b>2</b> Conformance .....	13
<b>2.1</b> Types of conformance .....	13
<b>2.2</b> Conformance of information interchange .....	13
<b>2.3</b> Conformance of devices .....	14
<b>2.3.1</b> Device description .....	14
<b>2.3.2</b> Originating devices .....	14
<b>2.3.3</b> Receiving devices .....	14
<b>3</b> Normative references .....	14
<b>4</b> Notation and definitions .....	14
<b>4.1</b> Notation .....	14
<b>4.2</b> Definitions .....	14
<b>4.2.1</b> active area .....	14
<b>4.2.2</b> active field .....	15
<b>4.2.3</b> active line .....	15
<b>4.2.4</b> active page .....	15
<b>4.2.5</b> active position .....	15
<b>4.2.6</b> area .....	15
<b>4.2.7</b> auxiliary device .....	15
<b>4.2.8</b> bit combination .....	15
<b>4.2.9</b> byte .....	15
<b>4.2.10</b> to cancel .....	15
<b>4.2.11</b> character .....	15

	Page
4.2.12 character-coded-data-element (CC-data-element) .....	15
4.2.13 character-imaging device .....	15
4.2.14 character path .....	15
4.2.15 character position .....	15
4.2.16 to clear .....	15
4.2.17 coded character set; code .....	15
4.2.18 code extension .....	15
4.2.19 code table .....	15
4.2.20 control character .....	15
4.2.21 control function .....	15
4.2.22 control sequence .....	15
4.2.23 control string .....	15
4.2.24 cursor .....	15
4.2.25 decimal mark .....	15
4.2.26 default .....	15
4.2.27 to delete .....	15
4.2.28 to designate .....	15
4.2.29 device .....	15
4.2.30 display .....	15
4.2.31 editor function .....	15
4.2.32 eligible .....	15
4.2.33 environment .....	16
4.2.34 to erase .....	16
4.2.35 escape sequence .....	16
4.2.36 field .....	16
4.2.37 Final Byte .....	16
4.2.38 formator function .....	16
4.2.39 graphic character .....	16
4.2.40 graphic rendition .....	16
4.2.41 graphic symbol .....	16
4.2.42 guarded area .....	16
4.2.43 initial state .....	16
4.2.44 Intermediate Byte .....	16
4.2.45 to invoke .....	16
4.2.46 line .....	16
4.2.47 line progression .....	16
4.2.48 operating system .....	16

	Page
4.2.49 page .....	16
4.2.50 Parameter Byte .....	16
4.2.51 position .....	16
4.2.52 private (or experimental) use .....	16
4.2.53 protected area .....	16
4.2.54 qualified area .....	16
4.2.55 repertoire .....	16
4.2.56 scroll .....	16
4.2.57 selected area .....	16
4.2.58 tabulation .....	16
4.2.59 tabulation stop .....	16
4.2.60 user .....	16
<b>5 Coded representation .....</b>	<b>16</b>
5.1 General .....	16
5.2 DELETE .....	17
5.3 Elements of the C0 set .....	17
5.4 Elements of the C1 set .....	17
5.5 Control sequences .....	17
5.5.1 Parameter representation .....	18
5.5.2 Parameter string format .....	18
5.5.3 Types of parameters .....	18
5.6 Independent control functions .....	19
5.7 Control strings .....	19
<b>6 Device concepts .....</b>	<b>19</b>
6.1 The received data stream .....	19
6.2 The character image output .....	19
6.3 The active position .....	20
6.3.1 Implicit movement .....	20
6.3.2 Explicit movement .....	20
6.4 Formator functions and editor functions .....	20
6.4.1 Formator functions .....	20
6.4.2 Composite graphic characters .....	20
6.4.3 Editor functions .....	21

	Page
6.5 Selected and qualified areas .....	21
6.5.1 Selected areas .....	21
6.5.2 Qualified areas .....	21
6.5.2.1 Protected areas .....	21
6.5.2.2 Guarded areas .....	21
6.6 Auxiliary input/output devices .....	21
7 Modes .....	21
7.1 The concept of modes .....	21
7.2 Definition of modes .....	22
7.2.1 CRM — CONTROL REPRESENTATION MODE .....	22
7.2.2 EBM — EDITING BOUNDARY MODE .....	22
7.2.3 ERM — ERASURE MODE .....	22
7.2.4 FEAM — FORMAT EFFECTOR ACTION MODE .....	22
7.2.5 FETM — FORMAT EFFECTOR TRANSFER MODE .....	22
7.2.6 GATM — GUARDED AREA TRANSFER MODE .....	22
7.2.7 GRM — GRAPHIC RENDITION COMBINATION MODE .....	24
7.2.8 HEM — CHARACTER EDITING MODE .....	24
7.2.9 IRM — INSERTION REPLACEMENT MODE .....	24
7.2.10 KAM — KEYBOARD ACTION MODE .....	24
7.2.11 LF/NLM — LINE FEED/NEW LINE MODE .....	24
7.2.12 MATM — MULTIPLE AREA TRANSFER MODE .....	24
7.2.13 PUM — POSITIONING UNIT MODE .....	24
7.2.14 SATM — SELECTED AREA TRANSFER MODE .....	24
7.2.15 SRM — SEND/RECEIVE MODE .....	24
7.2.16 SRTM — STATUS REPORT TRANSFER MODE .....	25
7.2.17 TSM — TABULATION STOP MODE .....	25
7.2.18 TTM — TRANSFER TERMINATION MODE .....	25
7.2.19 VEM — LINE EDITING MODE .....	25
7.2.20 ZDM — ZERO DEFAULT MODE .....	25
7.3 Interaction between modes .....	25
7.3.1 GUARDED AREA TRANSFER MODE (GATM), MULTIPLE AREA TRANSFER MODE (MATM), SELECTED AREA TRANSFER MODE (SATM), and TRANSFER TERMINATION MODE (TTM) .....	25
7.3.2 CONTROL REPRESENTATION MODE (CRM) and FORMAT EFFECTOR ACTION MODE (FEAM) .....	26
7.3.3 CHARACTER EDITING MODE (HEM) and INSERTION REPLACEMENT MODE (IRM) .....	26

	Page
7.4 Private modes .....	26
<b>8 Control functions .....</b>	<b>26</b>
8.1 Types of control functions .....	26
8.2 Categories of control functions .....	26
8.2.1 Delimiters .....	27
8.2.2 Introdurers .....	27
8.2.3 Shift functions .....	27
8.2.4 Format effectors .....	27
8.2.5 Presentation control functions .....	28
8.2.6 Editor functions .....	29
8.2.7 Cursor control functions .....	30
8.2.8 Display control functions .....	30
8.2.9 Device control functions .....	30
8.2.10 Information separators .....	31
8.2.11 Area definition .....	31
8.2.12 Mode setting .....	31
8.2.13 Transmission control functions .....	31
8.2.14 Miscellaneous control functions .....	32
<b>8.3 Definition of control functions .....</b>	<b>33</b>
8.3.1 ACK — ACKNOWLEDGE .....	33
8.3.2 APC — APPLICATION PROGRAM COMMAND .....	33
8.3.3 BEL — BELL .....	33
8.3.4 BPH — BREAK PERMITTED HERE .....	33
8.3.5 BS — BACKSPACE .....	33
8.3.6 CAN — CANCEL .....	33
8.3.7 CBT — CURSOR BACKWARD TABULATION .....	33
8.3.8 CCH — CANCEL CHARACTER .....	33
8.3.9 CHA — CURSOR CHARACTER ABSOLUTE .....	33
8.3.10 CHT — CURSOR FORWARD TABULATION .....	33
8.3.11 CMD — CODING METHOD DELIMITER .....	33
8.3.12 CNL — CURSOR NEXT LINE .....	34
8.3.13 CPL — CURSOR PRECEDING LINE .....	34
8.3.14 CPR — ACTIVE POSITION REPORT .....	34
8.3.15 CR — CARRIAGE RETURN .....	34

	Page
8.3.16 CSI — CONTROL SEQUENCE INTRODUCER .....	34
8.3.17 CTC — CURSOR TABULATION CONTROL .....	34
8.3.18 CUB — CURSOR LEFT .....	34
8.3.19 CUD — CURSOR DOWN .....	34
8.3.20 CUF — CURSOR RIGHT .....	35
8.3.21 CUP — CURSOR POSITION .....	35
8.3.22 CUU — CURSOR UP .....	35
8.3.23 CVT — CURSOR LINE TABULATION .....	35
8.3.24 DA — DEVICE ATTRIBUTES .....	35
8.3.25 DAQ — DEFINE AREA QUALIFICATION .....	35
8.3.26 DCH — DELETE CHARACTER .....	35
8.3.27 DCS — DEVICE CONTROL STRING .....	36
8.3.28 DC1 — DEVICE CONTROL ONE .....	36
8.3.29 DC2 — DEVICE CONTROL TWO .....	36
8.3.30 DC3 — DEVICE CONTROL THREE .....	36
8.3.31 DC4 — DEVICE CONTROL FOUR .....	36
8.3.32 DEL — DELETE .....	36
8.3.33 DL — DELETE LINE .....	36
8.3.34 DLE — DATA LINK ESCAPE .....	37
8.3.35 DMI — DISABLE MANUAL INPUT .....	37
8.3.36 DSR — DEVICE STATUS REPORT .....	37
8.3.37 DTA — DIMENSION TEXT AREA .....	37
8.3.38 EA — ERASE IN AREA .....	37
8.3.39 ECH — ERASE CHARACTER .....	37
8.3.40 ED — ERASE IN PAGE .....	37
8.3.41 EF — ERASE IN FIELD .....	38
8.3.42 EL — ERASE IN LINE .....	38
8.3.43 EM — END OF MEDIUM .....	38
8.3.44 EMI — ENABLE MANUAL INPUT .....	38
8.3.45 ENQ — ENQUIRY .....	38
8.3.46 EOT — END OF TRANSMISSION .....	38
8.3.47 EPA — END OF GUARDED AREA .....	38
8.3.48 ESA — END OF SELECTED AREA .....	39

	Page
8.3.49 ESC — ESCAPE .....	39
8.3.50 ETB — END OF TRANSMISSION BLOCK .....	39
8.3.51 ETX — END OF TEXT .....	39
8.3.52 FF — FORM FEED .....	39
8.3.53 FNK — FUNCTION KEY .....	39
8.3.54 FNT — FONT SELECTION .....	39
8.3.55 GCC — GRAPHIC CHARACTER COMPOSITION .....	39
8.3.56 GSM — GRAPHIC SIZE MODIFICATION .....	39
8.3.57 GSS — GRAPHIC SIZE SELECTION .....	40
8.3.58 HPA — CHARACTER POSITION ABSOLUTE .....	40
8.3.59 HPB — CHARACTER POSITION BACKWARD .....	40
8.3.60 HPR — CHARACTER POSITION FORWARD .....	40
8.3.61 HT — CHARACTER TABULATION .....	40
8.3.62 HTJ — CHARACTER TABULATION WITH JUSTIFICATION ..	40
8.3.63 HTS — CHARACTER TABULATION SET .....	40
8.3.64 HVP — CHARACTER AND LINE POSITION .....	40
8.3.65 ICH — INSERT CHARACTER .....	41
8.3.66 IDCS — IDENTIFY DEVICE CONTROL STRING .....	41
8.3.67 IGS — IDENTIFY GRAPHIC SUBREPERTOIRE .....	41
8.3.68 IL — INSERT LINE .....	41
8.3.69 INT — INTERRUPT .....	41
8.3.70 IS1 — INFORMATION SEPARATOR ONE (US — UNIT SEPARATOR) .....	41
8.3.71 IS2 — INFORMATION SEPARATOR TWO (RS — RECORD SEPARATOR) .....	42
8.3.72 IS3 — INFORMATION SEPARATOR THREE (GS — GROUP SEPARATOR) .....	42
8.3.73 IS4 — INFORMATION SEPARATOR FOUR (FS — FILE SEPARATOR) .....	42
8.3.74 JFY — JUSTIFY .....	42
8.3.75 LF — LINE FEED .....	42
8.3.76 LS0 — LOCKING-SHIFT ZERO .....	42
8.3.77 LS1 — LOCKING-SHIFT ONE .....	42
8.3.78 LS1R — LOCKING-SHIFT ONE RIGHT .....	42
8.3.79 LS2 — LOCKING-SHIFT TWO .....	42

	Page
<b>8.3.80</b> LS2R — LOCKING-SHIFT TWO RIGHT .....	43
<b>8.3.81</b> LS3 — LOCKING-SHIFT THREE .....	43
<b>8.3.82</b> LS3R — LOCKING-SHIFT THREE RIGHT .....	43
<b>8.3.83</b> MC — MEDIA COPY .....	43
<b>8.3.84</b> MW — MESSAGE WAITING .....	43
<b>8.3.85</b> NAK — NEGATIVE ACKNOWLEDGE .....	43
<b>8.3.86</b> NBH — NO BREAK HERE .....	43
<b>8.3.87</b> NEL — NEXT LINE .....	43
<b>8.3.88</b> NP — NEXT PAGE .....	43
<b>8.3.89</b> NUL — NULL .....	43
<b>8.3.90</b> OSC — OPERATING SYSTEM COMMAND .....	44
<b>8.3.91</b> PEC — PRESENTATION EXPAND OR CONTRACT .....	44
<b>8.3.92</b> PFS — PAGE FORMÁT SELECTION .....	44
<b>8.3.93</b> PLD — PARTIAL LINE FORWARD .....	44
<b>8.3.94</b> PLU — PARTIAL LINE BACKWARD .....	44
<b>8.3.95</b> PM — PRIVACY MESSAGE .....	44
<b>8.3.96</b> PP — PRECEDING PAGE .....	45
<b>8.3.97</b> PPA — PAGE POSITION ABSOLUTE .....	45
<b>8.3.98</b> PPB — PAGE POSITION BACKWARD .....	45
<b>8.3.99</b> PPR — PAGE POSITION FORWARD .....	45
<b>8.3.100</b> PTX — PARALLEL TEXTS .....	45
<b>8.3.101</b> PU1 — PRIVATE USE ONE .....	45
<b>8.3.102</b> PU2 — PRIVATE USE TWO .....	45
<b>8.3.103</b> QUAD — QUAD .....	46
<b>8.3.104</b> REP — REPEAT .....	46
<b>8.3.105</b> RI — REVERSE LINE FEED .....	46
<b>8.3.106</b> RIS — RESET TO INITIAL STATE .....	46
<b>8.3.107</b> RM — RESET MODE .....	46
<b>8.3.108</b> SACS — SET ADDITIONAL CHARACTER SEPARATION .....	46
<b>8.3.109</b> SAPV — SELECT ALTERNATIVE PRESENTATION VARIANTS .....	47
<b>8.3.110</b> SCI — SINGLE CHARACTER INTRODUCER .....	47
<b>8.3.111</b> SCO — SELECT CHARACTER ORIENTATION .....	47

	Page
<b>8.3.112</b> SCS — SET CHARACTER SPACING .....	47
<b>8.3.113</b> SD — SCROLL DOWN .....	48
<b>8.3.114</b> SEE — SELECT EDITING EXTENT .....	48
<b>8.3.115</b> SEF — SHEET EJECT AND FEED .....	48
<b>8.3.116</b> SGR — SELECT GRAPHIC RENDITION .....	48
<b>8.3.117</b> SHS — SELECT CHARACTER SPACING .....	49
<b>8.3.118</b> SI — SHIFT-IN .....	49
<b>8.3.119</b> SL — SCROLL LEFT .....	49
<b>8.3.120</b> SLH — SET LINE HOME .....	49
<b>8.3.121</b> SLL — SET LINE LIMIT .....	50
<b>8.3.122</b> SLS — SET LINE SPACING .....	50
<b>8.3.123</b> SM — SET MODE .....	50
<b>8.3.124</b> SO — SHIFT-OUT .....	50
<b>8.3.125</b> SOH — START OF HEADING .....	50
<b>8.3.126</b> SOS — START OF STRING .....	50
<b>8.3.127</b> SPA — START OF GUARDED AREA .....	51
<b>8.3.128</b> SPD — SELECT PRESENTATION DIRECTIONS.....	51
<b>8.3.129</b> SPI — SPACING INCREMENT .....	51
<b>8.3.130</b> SPQR — SELECT PRINT QUALITY AND RAPIDITY .....	51
<b>8.3.131</b> SR — SCROLL RIGHT.....	51
<b>8.3.132</b> SRCS — SET REDUCED CHARACTER SEPARATION .....	51
<b>8.3.133</b> SRS — START REVERSED STRING .....	52
<b>8.3.134</b> SSA — START OF SELECTED AREA .....	52
<b>8.3.135</b> SSU — SELECT SIZE UNIT .....	52
<b>8.3.136</b> SSW — SET SPACE WIDTH .....	52
<b>8.3.137</b> SS2 — SINGLE-SHIFT TWO .....	53
<b>8.3.138</b> SS3 — SINGLE-SHIFT THREE.....	53
<b>8.3.139</b> ST — STRING TERMINATOR .....	53
<b>8.3.140</b> STAB — SELECTIVE TABULATION.....	53
<b>8.3.141</b> STS — SET TRANSMIT STATE .....	53
<b>8.3.142</b> STX — START OF TEXT.....	53
<b>8.3.143</b> SU — SCROLL UP .....	53
<b>8.3.144</b> SUB — SUBSTITUTE .....	53

	Page
<b>8.3.145</b> SVS — SELECT LINE SPACING .....	53
<b>8.3.146</b> SYN — SYNCHRONOUS IDLE .....	54
<b>8.3.147</b> TAC — TABULATION ALIGNED CENTRED .....	54
<b>8.3.148</b> TALE — TABULATION ALIGNED LEADING EDGE .....	54
<b>8.3.149</b> TATE — TABULATION ALIGNED TRAILING EDGE .....	54
<b>8.3.150</b> TBC — TABULATION CLEAR .....	54
<b>8.3.151</b> TCC — TABULATION CENTRED ON CHARACTER .....	55
<b>8.3.152</b> TSR — TABULATION STOP REMOVE .....	55
<b>8.3.153</b> TSS — THIN SPACE SPECIFICATION .....	55
<b>8.3.154</b> VPA — LINE POSITION ABSOLUTE .....	55
<b>8.3.155</b> VPB — LINE POSITION BACKWARD .....	55
<b>8.3.156</b> VPR — LINE POSITION FORWARD .....	55
<b>8.3.157</b> VT — LINE TABULATION .....	55
<b>8.3.158</b> VTS — LINE TABULATION SET .....	56
<b>9</b> Transformation between 7-bit and 8-bit coded representations .....	56
<b>Annexes</b>	
<b>A</b> — Formator functions and editor functions .....	57
<b>B</b> — Coding examples .....	59
<b>C</b> — Text composition considerations .....	60
<b>D</b> — Implementation-dependent features .....	61
<b>E</b> — Differences between this second edition of ISO 6429 and ISO 6429 : 1983 .....	62

# Character sets and information coding—Control functions for 7-bit and 8-bit character sets

## 1 Scope

**1.1** This International Standard defines control functions and their coded representations for use in a 7-bit code, an extended 7-bit code, an 8-bit code or an extended 8-bit code, if such a code is structured in accordance with ISO 2022. This International Standard specifies a C0 set, a C1 set, control functions derived therefrom and a number of independent control functions.

**1.2** The control functions are intended to be used embedded in character-coded data for interchange with character-imaging devices.

A character-imaging device is a device which is capable of receiving a data stream that consists of coded control functions and graphic characters, and is capable of producing character image output, i.e. output that can be read by a human being. The character image output is, in general, produced in the form of one or more rectangular arrays of character positions and lines which are called pages.

If the device is an input/output device rather than merely an output device, it is also capable of transmitting a data stream that consists of coded control functions and graphic characters; the transmitted data stream is, in general, composed of a combination of data which have been sent to the device and data which have been entered locally into the device, for example by an associated keyboard.

In general, the control functions are defined by their effects on a character-imaging input/output device. It is, therefore, necessary to make certain assumptions about the device architecture. These assumptions are as unrestrictive as possible; they are specified in clause 6.

In addition to being performed the control functions may need to be represented by a graphic symbol.

The structure of this International Standard is open-ended, so that more control functions can be included in future editions.

Other International Standards specifying control functions may define more restricted definitions of them than those in this International Standard.

**1.3** The devices to which this International Standard applies can vary greatly from each other depending on the application for which a device has been specifically designed. It is

technically and economically impractical for one device to implement all the facilities specified in this International Standard. The intention is that within any type of device only a limited selection of the facilities appropriate to the application will be implemented.

## 2 Conformance

### 2.1 Types of conformance

Full conformance to a standard means that all of its requirements are met. Conformance will only have a unique meaning if the standard contains no options. If there are options within the standard they must be clearly identified, and any claim of conformance must include a statement that identifies those options that have been adopted.

This International Standard is of a different nature since it specifies a large number of facilities from which different selections may be made to suit individual applications. These selections are not identified in this International Standard, but must be identified at the time that a claim of conformance is made. Conformance to such an identified selection is known as limited conformance.

### 2.2 Conformance of information interchange

A CC-data-element within coded information for interchange is in conformance with this International Standard if the coded representations of control functions within that CC-data-element satisfy the following conditions:

- a) a coded representation of a control function that is specified in this International Standard shall always represent that control function;
- b) a control function that is specified in this International Standard shall always be represented by the coded representation that is specified in this International Standard for that control function;
- c) any coded representation that is reserved for future standardization by this International Standard shall not appear.

Coded representations of control functions and modes not specified in this International Standard may appear in interchanged information subject to the above conditions (see 5.5, 5.5.1 and 7.4).